A night sky with the Milky Way galaxy visible as a dense band of stars. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape with some snow patches.

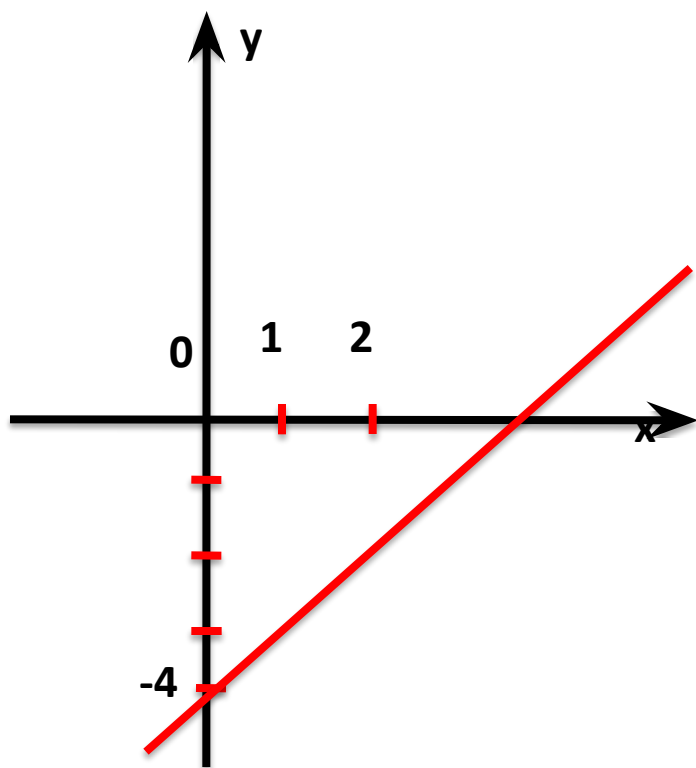
Линейная функция,
её график, свойства.

A night sky with the Milky Way galaxy visible as a dense band of stars and dust. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley, under a starry sky.

Проверка сплоченности КОСМОНАВТОВ

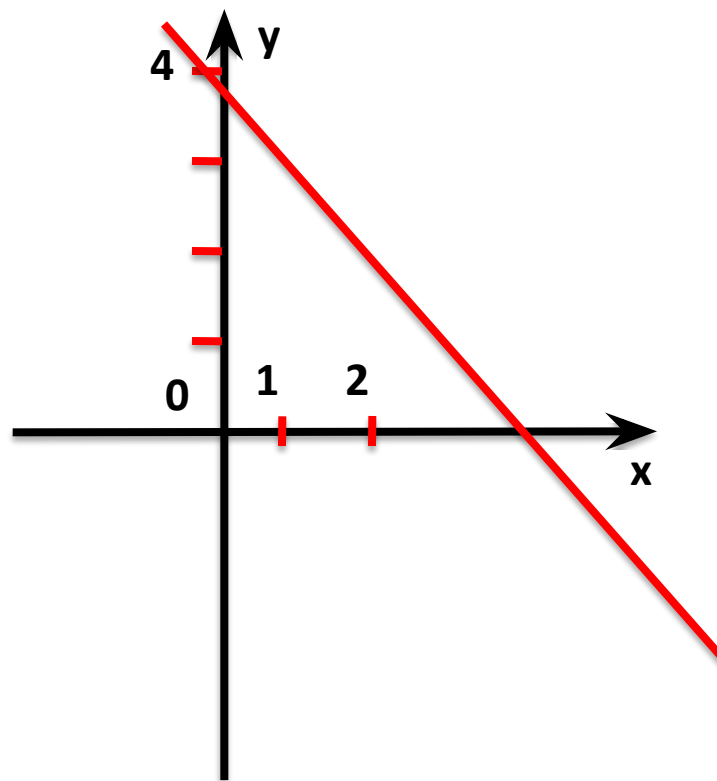
$$y=x-4$$

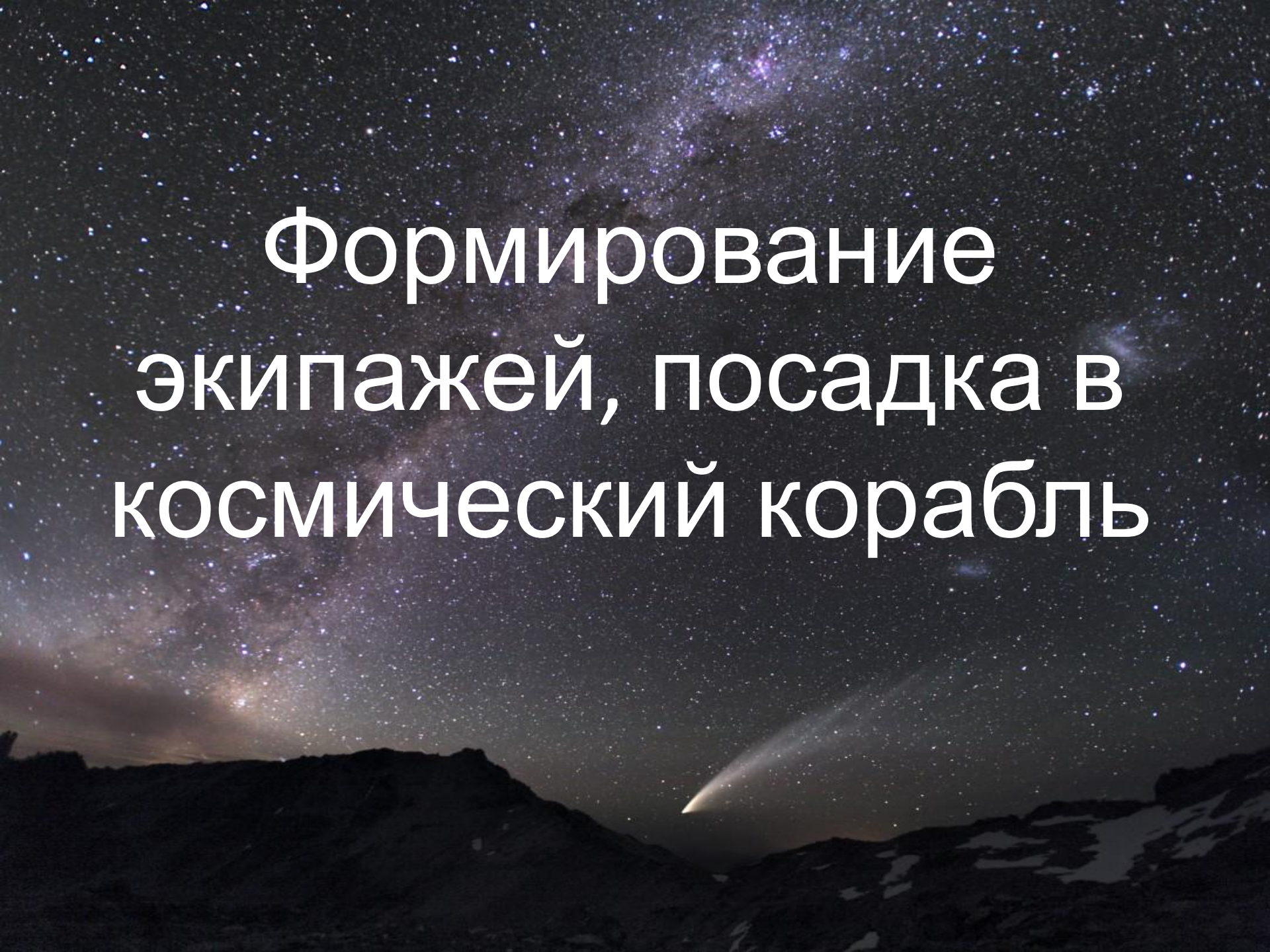
I вариант



$$y=-x+4$$

II вариант

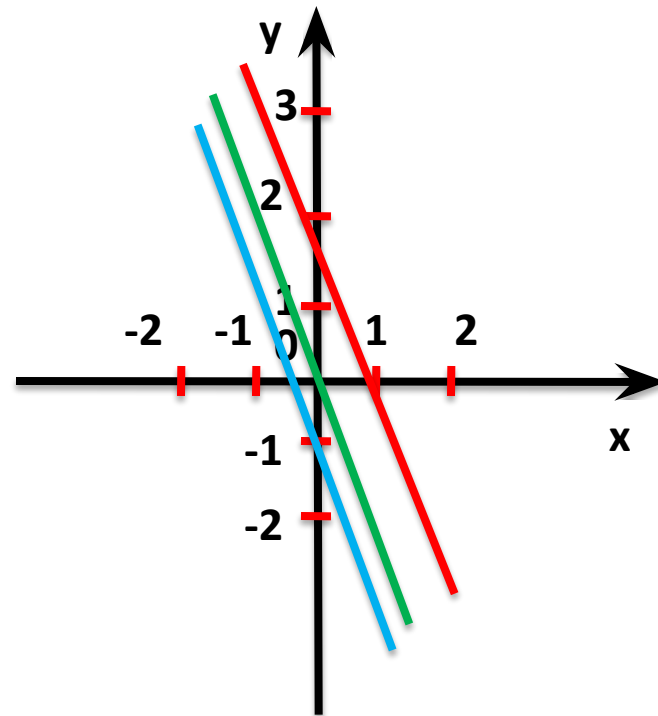
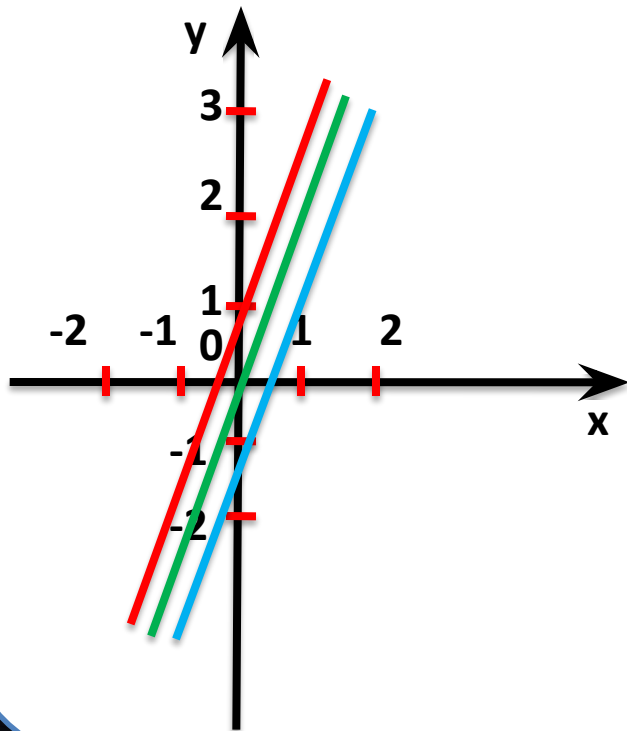


A night sky with the Milky Way galaxy visible as a dense band of stars. A bright comet streaks across the lower right portion of the sky. The foreground shows a dark, silhouetted landscape with some snow patches.

Формирование экипажей, посадка в космический корабль

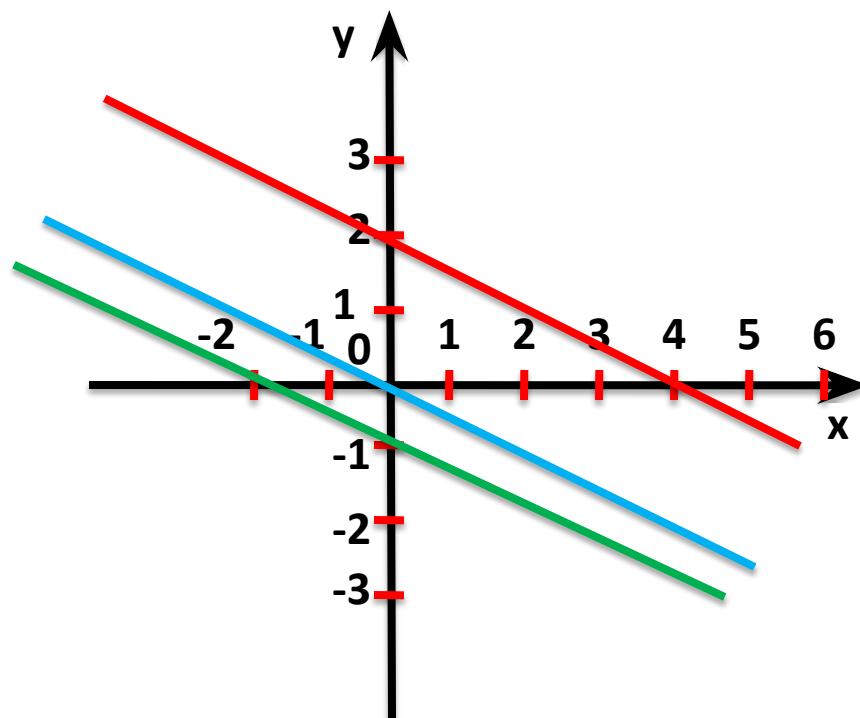
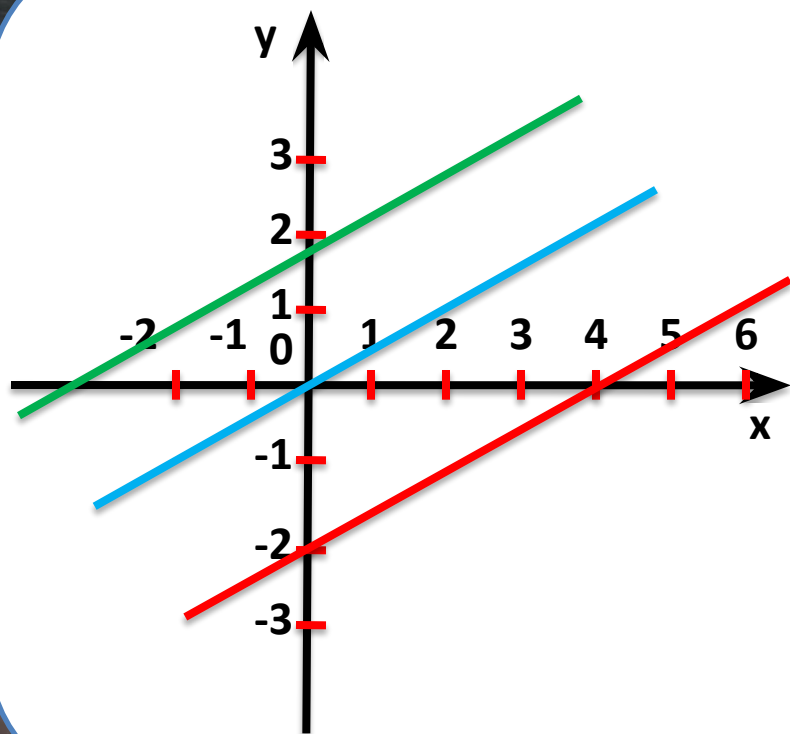
$$y=2x \quad y=2x+1$$
$$y=2x-1$$

$$y=-2x+1 \quad y=-2x-1$$
$$y=-2x$$



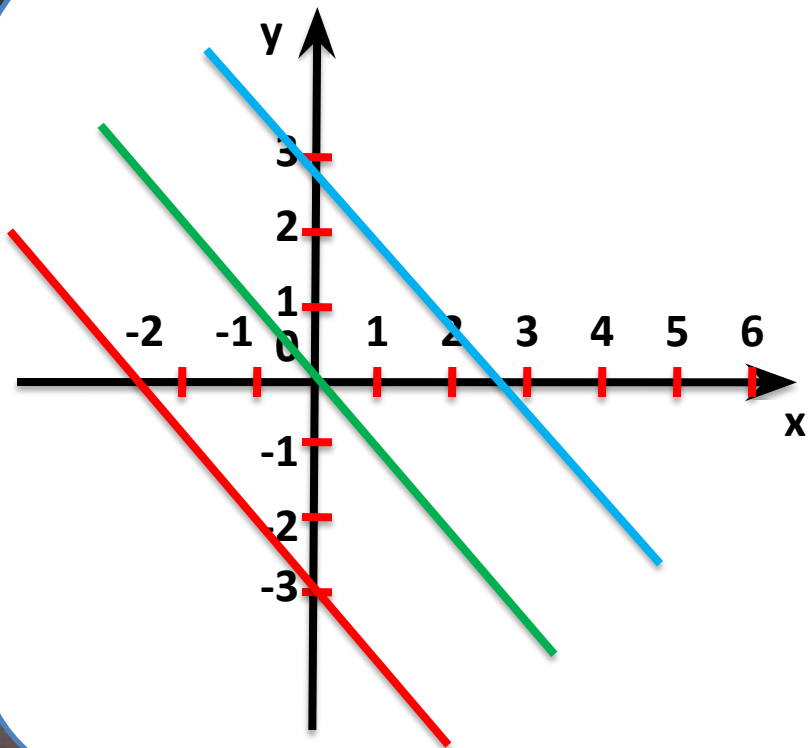
$$y=0,5x+2 \quad y=0,5x-2$$
$$y=0,5x$$

$$y=-0,5x+2 \quad y=-0,5x$$
$$y=-0,5x-2$$



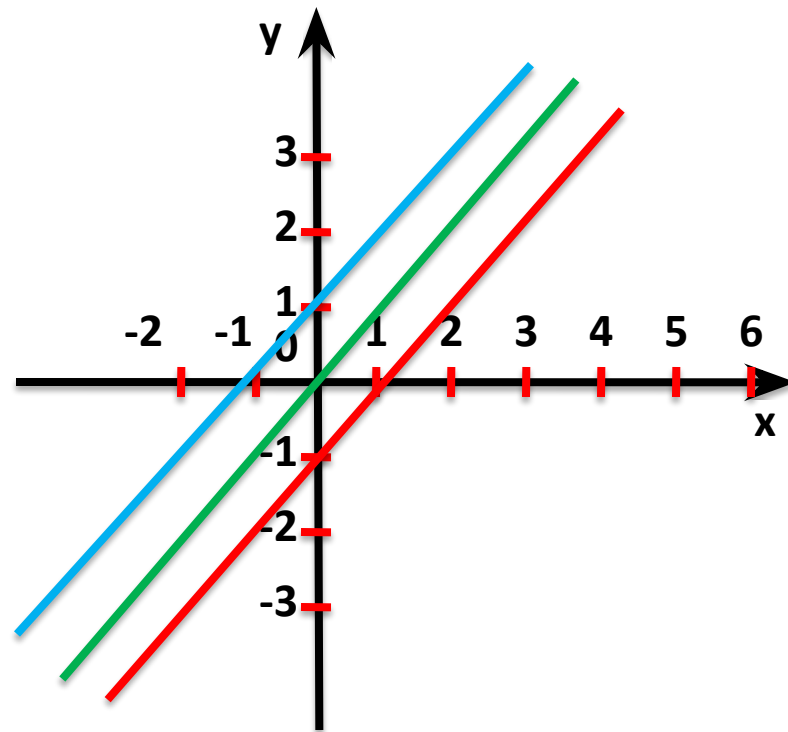
$$y = -x \quad y = -x + 3$$

$$y = -x - 3$$



$$y = x + 1 \quad y = x - 1$$

$$y = x$$



Полет в космос

A night sky photograph featuring the Milky Way galaxy stretching across the upper half of the frame. The stars are densely packed, with some appearing as bright blue or purple points. In the lower right, a bright comet streaks across the sky, leaving a long, glowing tail. The foreground is a dark, silhouetted landscape, possibly a mountain range or a valley, with some snow patches visible on the right side.

Найти уравнения линейных функций

$$y = -x + 0,2; \quad y = 12,4x - 115,7; \quad y = -9x - 118;$$

$$y = 5,04x;$$

$$y = -5,04x; \quad y = 126,35 + 8,75x; \quad y = x - 0,2;$$

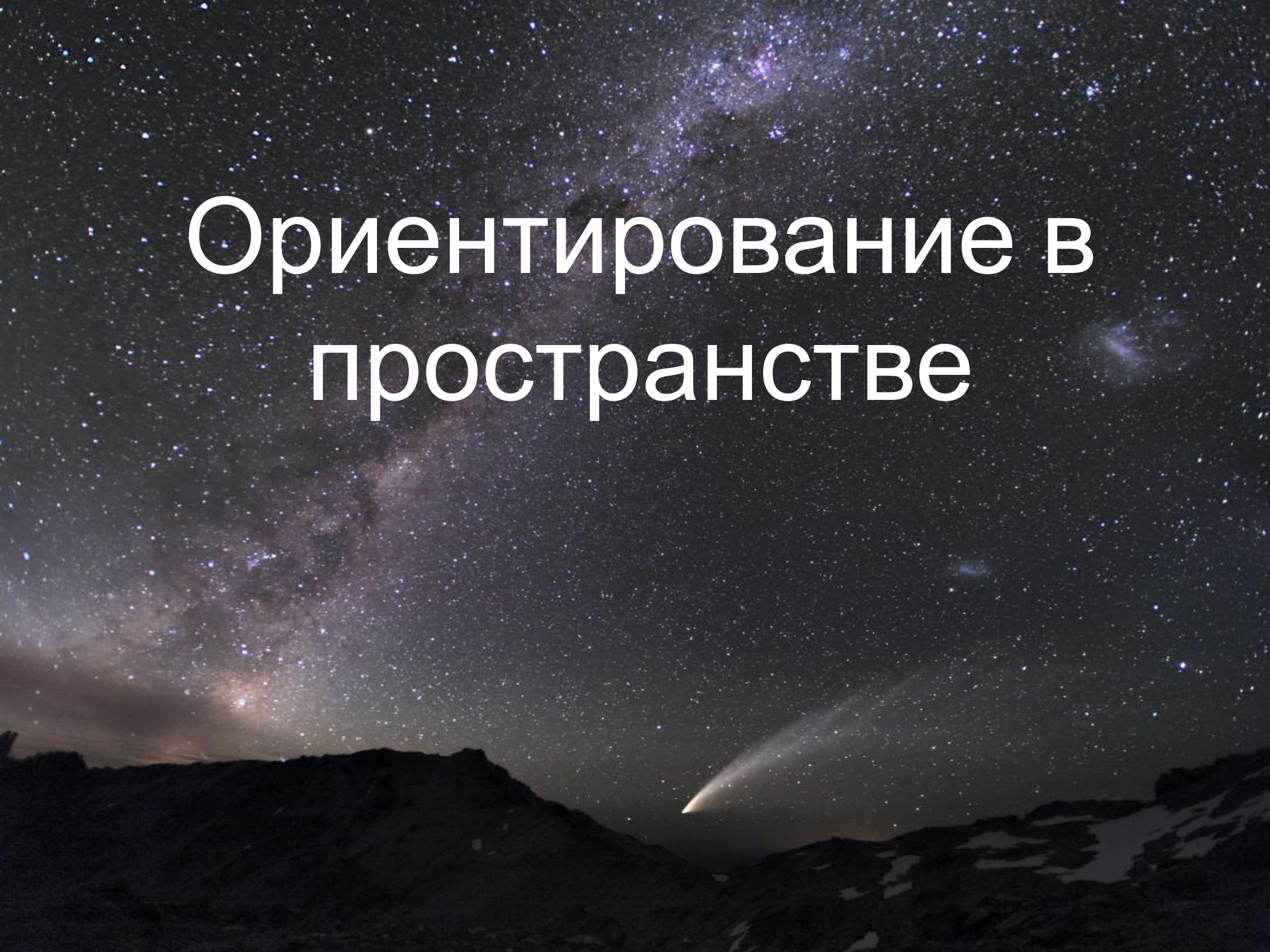
$$y = -x : 8;$$

$$y = -0,0005x; \quad y = 133,133133x; \quad y = -10,001x;$$

$$y = 2 : x;$$

$$y = -0,0049; \quad y = 62,4.$$

Ориентирование в пространстве

A night sky photograph featuring the Milky Way galaxy stretching across the upper half of the frame. The stars are densely packed, with some appearing as bright white and blue points. In the lower half, a dark, silhouetted landscape of mountains or hills is visible. A bright comet streaks across the sky in the lower right quadrant, leaving a long, glowing tail that fades into the darkness.

Полет в космос

A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, stretching diagonally across the upper half of the frame. The foreground shows a dark, silhouetted landscape, possibly a mountain range or a valley, with some snow patches visible on the right side. A bright comet streaks across the lower right portion of the sky, leaving a long, glowing trail.

1 экипаж

$(0;-1); k>0;$

I, III –

четверть

;

4 ^{k=3}экипаж

$(0;1); k<0;$

II, IV –

четверть;

$k=-0,5.$

2 экипаж

$(0;-1); k<0;$

II, IV –

четверть;

$k=-3.$

5 экипаж

$(0;2); k>0;$

I, III –

четверть;

$k=2.$

3 экипаж

$(0;1); k<0;$

II, IV –

четверть;

$k=-2.$

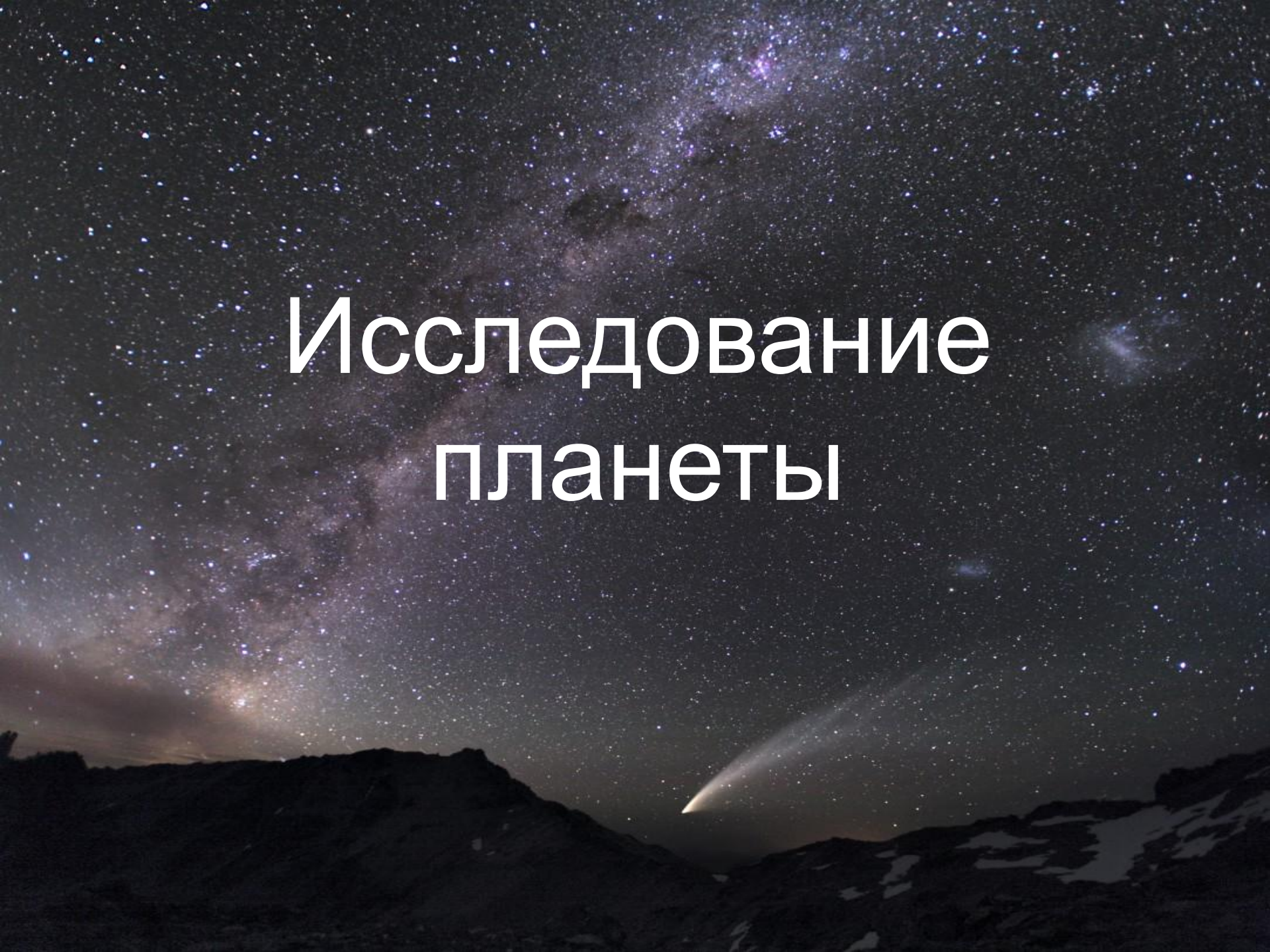
6 экипаж

$(0;-2); k>0;$

I, III –

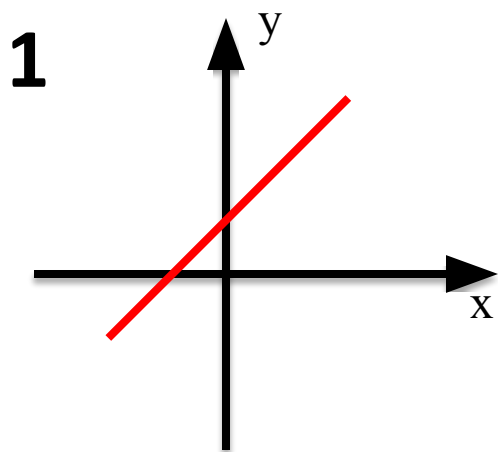
четверть;

$k=2.$

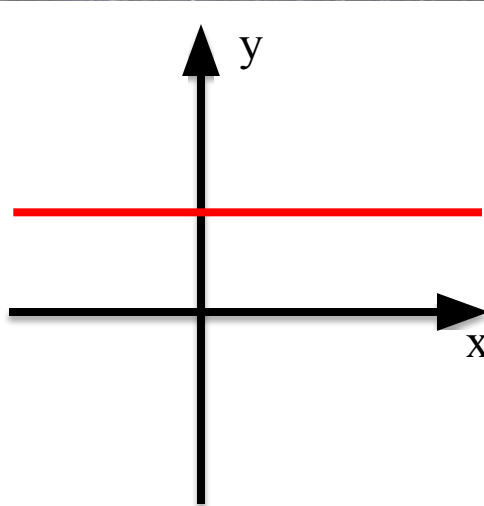
A night sky photograph featuring the Milky Way galaxy. The galaxy's core is visible as a bright, dense band of stars and dust, arching across the upper portion of the frame. The foreground shows dark, silhouetted mountain ranges. A bright comet streaks across the lower right quadrant of the sky, leaving a long, glowing trail. The overall scene is dark, with the stars providing the primary light source.

Исследование планеты

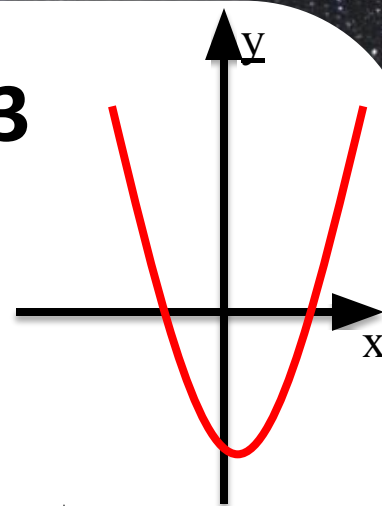
На каком рисунке изображён график линейной функции $y=kx$? Ответ объяснить.



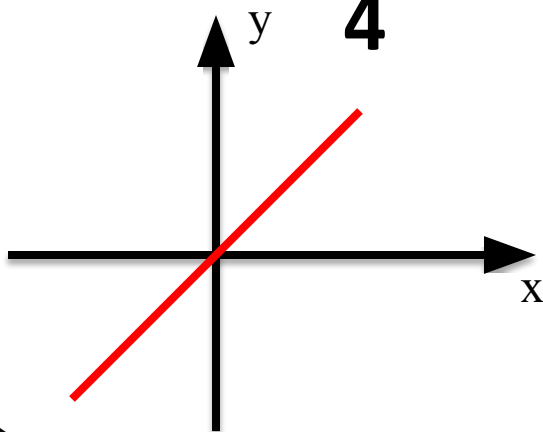
2



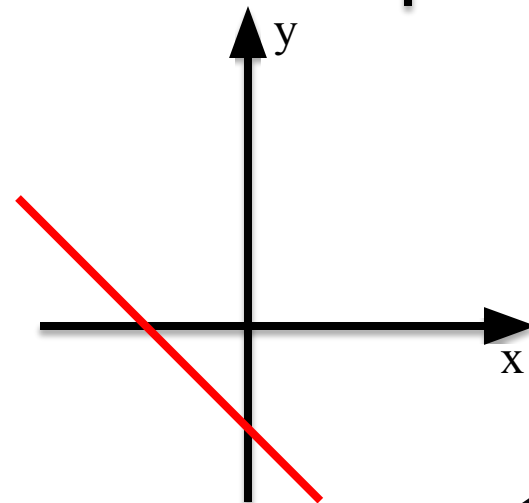
3



4

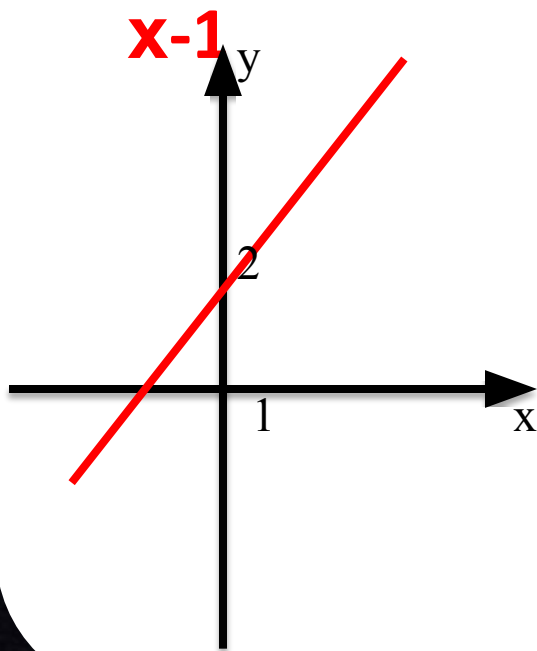


5

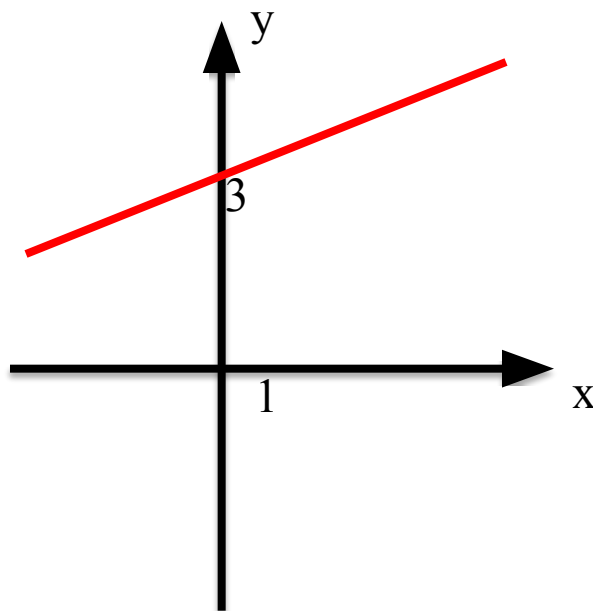


Ученик допустил ошибку при построении графика функции. На каком рисунке?

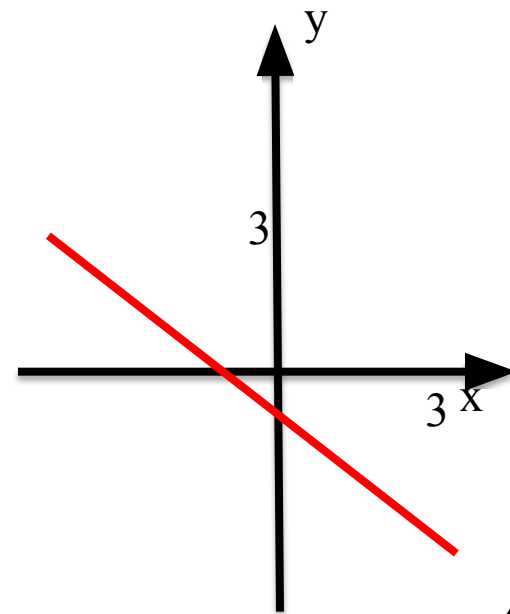
1. $y=x+2$



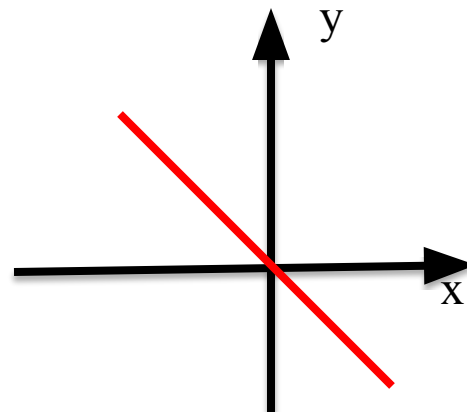
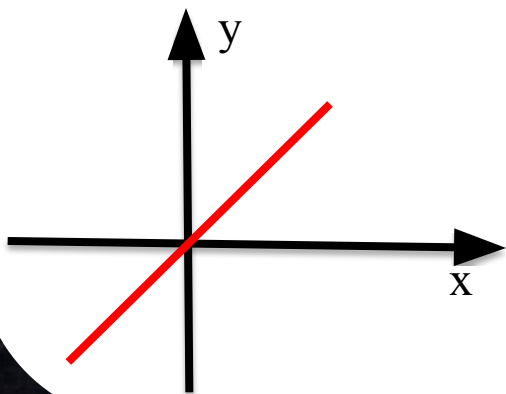
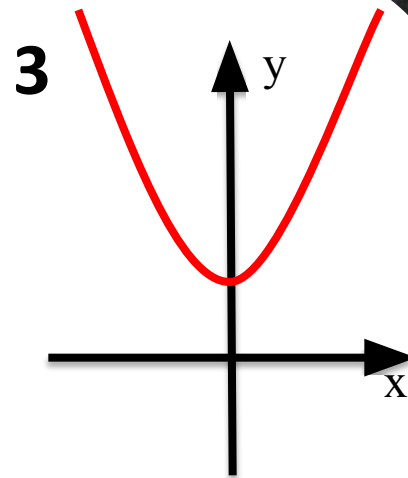
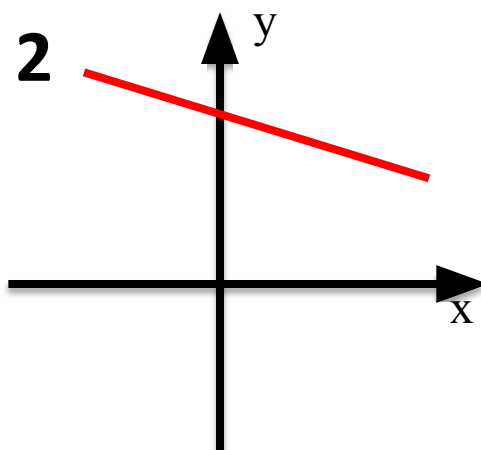
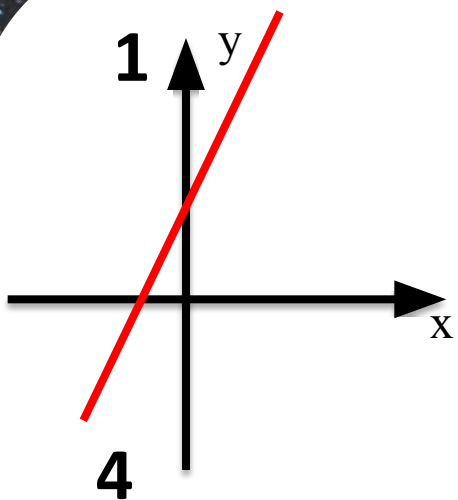
2. $y=1,5x$



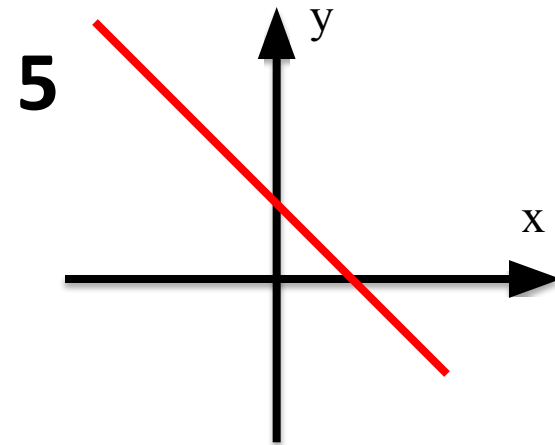
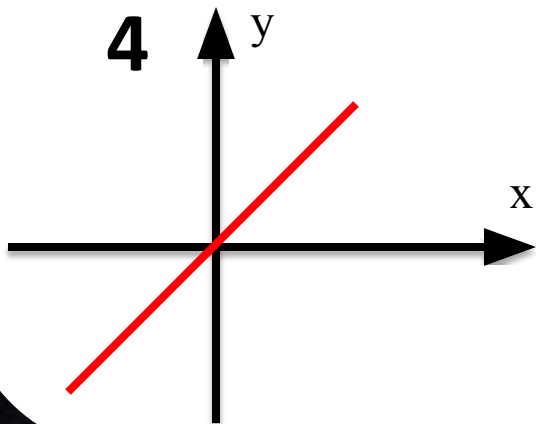
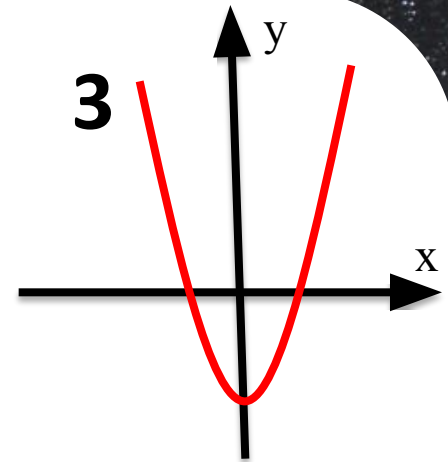
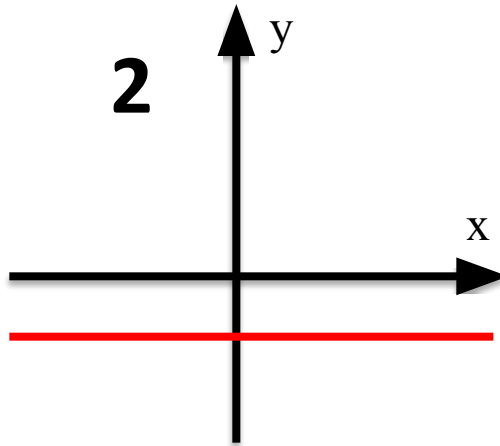
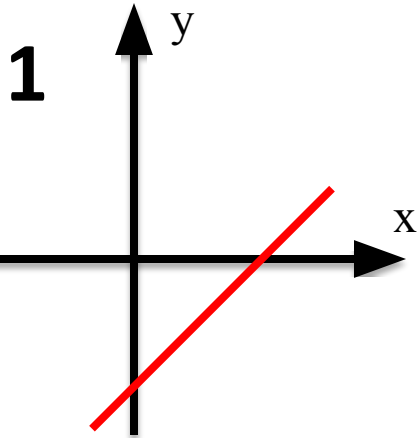
3. $y=-$

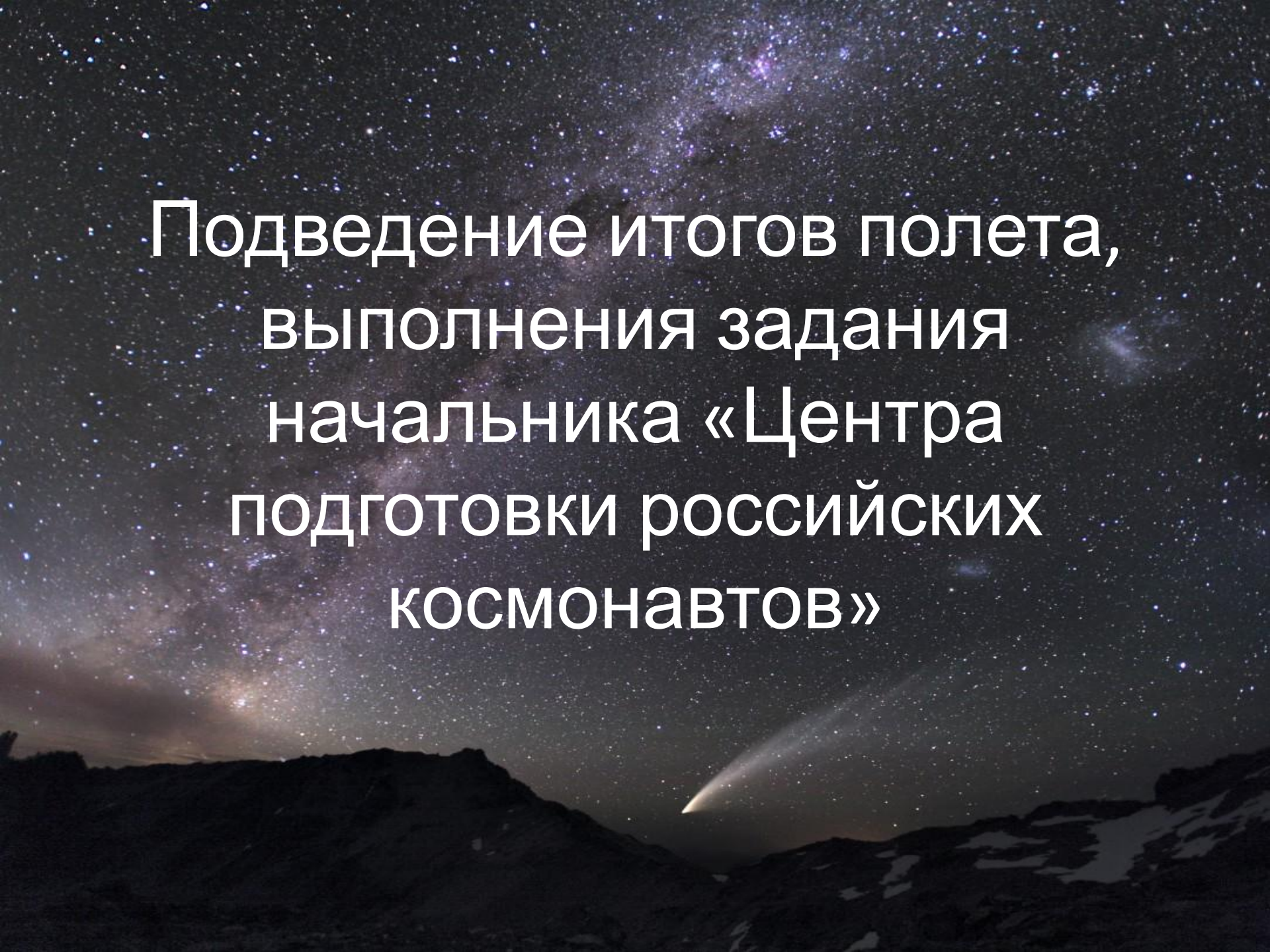


На каком рисунке коэффициент k отрицателен?



На каком рисунке свободный член b в уравнении линейной функции отрицателен?





Подведение итогов полета,
выполнения задания
начальника «Центра
подготовки российских
космонавтов»

Спасибо за урок

!!!

Использованная литература

1. Алимов Ш.А. и др. Алгебра: учебник для 7 класса общеобразовательных учреждений – М.: Просвещение, 2006.
2. Звавич Л.И. и др. Дидактические материалы по алгебре для 7 класса - М.: Просвещение, 2006.
3. Алгебра 7 класс, под редакцией Макарычев Ю.Н. и др., Просвещение, 2006

Интернет ресурсы

www.symbolsbook.ru/Article.aspx%...id%3D222